

## Message Text

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15

ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-11 INR-10 NSAE-00 RSC-01

TRSE-00 EUR-25 AEC-11 ADP-00 MC-02 /061 R

DRAFTED BY COMMERCE/OEC:MKRAVETZ:MAR

7/13/73 EXT 22584

APPROVED BY EB/ITP/EWT:RPRACHT

RPE

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R 132128Z JUL 73

FM SECSTATE WASHDC

TO USMISSION OECD PARIS

INFO AMEMBASSY MOSCOW

AMEMBASSY LONDON

C O N F I D E N T I A L STATE 137924

EXCON

EO 11652: XGDS-1

TAGS: ESTC, COCOM, US, UR

SUBJ: US COMPUTERIZED VIBRATION ANALYSIS SYSTEM TO

USSR - IL 1565

REFS: A. COCOM DOC(73)1114

B. OECD PARIS 18284

C. OECD PARIS 18431

D. OECD PARIS 18561

E. OECD PARIS 18928

1. RE REFS B AND D, BROCHURE ON TYPE 3347 (SHOWING MANUFACTURER'S IDENTITY) AIRMAILED FROM COMMERCE.

2. RE FRENCH QUESTIONS REF. C, A VIBRATION SYSTEM IS NOT A LOGICAL TOOL FOR USE IN DEVELOPING CENTRIFUGAL TESTING EQUIPMENT. IT COULD BE USED FOR CENTRIFUGE TESTING BY MEASUREMENT OF RESONANCE FREQUENCIES USING THE CENTRIFUGE  
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AS THE EXCITING FORCE INSTEAD OF VIBRATOR. WE HAVE NO

KNOWLEDGE OF FIRMS MAKING MEASUREMENTS ON CENTRIFUGES IN THIS COMPLEX MANNER. THE DERRITRON VIBRATORS ARE ELECTRODYNAMIC TYPE AND DO NOT USE MOTORS. THE MOVING SYSTEM WEIGHT IS 0.95 POUNDS AND THE STROKE IS 0.25 INCH.

3. ADDITIONAL INFORMATION FOLLOWS WHICH APPLICANT FEELS WILL HELP IN RESOLVING THIS CASE: MATHEMATICAL MODELING IS DIRECTED ONLY TO GENERAL STRUCTURE OF COMPRESSORS, INCLUDING CASING, PEDESTAL, BRACING AND HOLDING EQUIPMENT. THE CONTRACT SPECIFICALLY EXCLUDES MODELING OF THE ROTATING PARTS. EXCITATION OF STRUCTURE IS ACHIEVED WITH THREE DIFFERENT SOURCES: (1) VIBRATION OF CASE AND STRUCTURE BY LINEAR MOTION OF DERRITRON ELECTRODYNAMIC EXCITER. THIS IS THE PRIMARY SOURCE. (2) VIBRATION OF CASE AND PEDESTAL BY INTERNAL ROTATING MECHANISM INTERACTION. (3) VIBRATION OF STRUCTURE BY HYDRAULIC VIBRATION CAUSED BY FLUID MOVEMENT IN COMPRESSOR. RUSH

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** n/a  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 13 JUL 1973  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Authority:** thigpegh  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1973STATE137924  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** MKRAVETZ:MAR  
**Enclosure:** n/a  
**Executive Order:** X1 RACHT  
**Errors:** N/A  
**Film Number:** n/a  
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**Original Handling Restrictions:** n/a  
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**Previous Handling Restrictions:** n/a  
**Reference:** 73 A. COCOM DOC(73)1114  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** thigpegh  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 22 AUG 2001  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <22-Aug-2001 by smithrj>; APPROVED <18-Oct-2001 by thigpegh>  
**Review Markings:**

Declassified/Released  
US Department of State  
EO Systematic Review  
30 JUN 2005

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** US COMPUTERIZED VIBRATION ANALYSIS SYSTEM TO USSR - IL 1565  
**TAGS:** ESTC, US, UR, COCOM  
**To:** OECD PARIS  
**Type:** TE  
**Markings:** Declassified/Released US Department of State EO Systematic Review 30 JUN 2005